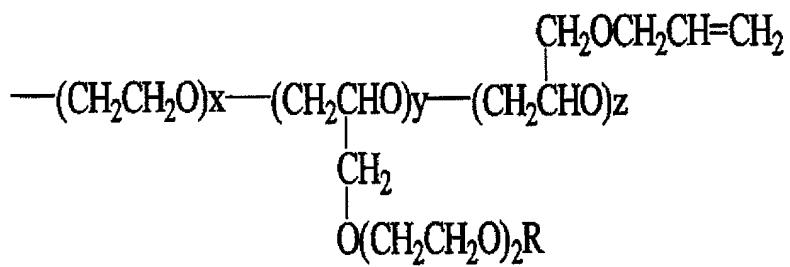


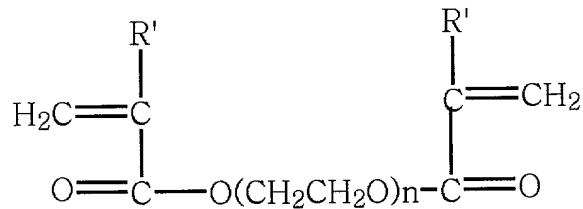
## ABSTRACT

A lithium battery having a cathode, an anode, and a separator interposed between the cathode and the anode, wherein the separator is an insulating resin sheet having a network structure in which a polymeric gel electrolyte is contained. The polymer electrolyte is prepared by polymerizing a polymer electrolyte precursor having a polymer represented by formula 1, a crosslinking agent represented by formula 2, and an electrolyte solution composed of a lithium salt and a non-aqueous organic solvents. Formula 1 is as follows:



. . . Formula 2 is as

follows:



. . . In formula 1 and formula 2,  
 $x$  ranges from 0.1 to 0.6 mol,  $y$  ranges from 0.1 to 0.8 mol,  $z$  ranges from 0.1 to 0.8 mol,  $R$  is an alkyl having 1 to 6 carbon atoms,  $n$  is an integer from 3 to 30, and  $R'$  is hydrogen or  $\text{CH}_3$ .